PATENT COOPERATION TREATY

INTERNATIONAL SEARC	HING AUTHO	DRITY				
To: MICHAEL J. MALLIE BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP			PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
12400 WILSHIRE BOULEVARD, 7TH FLOOR LOS ANGELES, CA 90025						
				(PCT Rule 43bis.1)		
			Date of mailing	1.9 NOV 2007		
Applicant's or agent's file re	eference		FOR FURTHER ACTION			
16820.P307				See paragraph 2 below		
International application No		International filing date	(day/month/year) Priority date (day/month/year)			
PCT/US05/28793		12 August 2005 (12.08.2	005)	13 August 2004 (13.08.2004)		
International Patent Classific	cation (IPC) or	both national classificati	on and IPC			
IPC: G06F 17/50(2006 USPC: 716/17	i.01)					
Applicant						
CYPRESS SEMICONDUC	FOR CORPOR	ATION				
I. This opinion contains in	dications relati	ing to the following items				
Box No. 1	Basis of the o	pinion				
Box No. 11	Priority					
Box No. III	Non-establish	ment of opinion with reg	ard to novelty, inve	entive step and industrial applicability		
Box No. IV	Lack of unity	of invention				
Box No. V		ement under Rule 43 <i>bis</i> . citations and explanation		to novelty, inventive step or industrial statement		
Box No. VI	Certain docum	nents cited				
Box No. VII	Certain documents cited Certain defects in the international application					
Box No. VIII	Certain observations on the international application					
Z3 20x 1.0. 1.11						
2. FURTHER ACTION	1					
International Preliminar Authority other than this	y Examining s one to be the	Authority ("IPEA") exc	ept that this does EA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an he International Bureau under Rule 66.1bis(b) ered.		
IPEA a written reply tog of Form PCT/ISA/220 or	ether, where a before the exp	ppropriate, with amendm iration of 22 months from	ents, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.		
For further options, see F	orm PCT/ISA/	220.				
3. For further details, see no	etes to Form PC	CT/ISA/220.		•		
Name and mailing address of	the ISA/ US	Date of completic	on of this opinion	Authorized officer Change & con		
Mail Stop PCT, Attn: I	ISA/US	11 October 2007		Jack Chiang		

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (571) 273-3201
Form PCT/ISA/237 (cover sheet) (April 2005)

International application No.
PCT/US05/28793

Box !	lo. I Basis of this opinion							
_	regard to the language, this opinion has been established on the basis of:							
⋈	the international application in the language in which it was filed							
	a translation of the international application into, which is the language of international search (Rules 12.3(a) and 23.1(b)).	a translation	furnished for the	purposes of				
	regard to any nucleotide and/or amino acid sequence disclosed in the internation, this opinion has been established on the basis of:	nal applicatio	n and necessary	to the claimed				
8.	type of material							
	a sequence listing							
	= ' '							
	table(s) related to the sequence listing							
b.	format of material							
	on paper							
	in electronic form							
c.	time of filing/furnishing							
	contained in the international application as filed.							
	filed together with the international application in electronic form.							
	furnished subsequently to this Authority for the purposes of search.							
_								
3. []	In addition, in the case that more than one version or copy of a sequence listing a or furnished, the required statements that the information in the subsequent or application as filed or does not go beyond the application as filed, as appropriate,	additional cor	ies is identical					
4. Additi	onal comments:							
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Form PCT/ISA/237(Box No. I) (April 2005)

WRITTEN OPINION OF THE

International application No. PCT/US05/28793

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement											
Statement											
Novelty (N)	Claims	6.7.14.15.21	und 22	-		YE					
		1-5,8-13 and				NO					
	·					YE					
Inventive step (IS)	Claims	NONE				NC					
Industrial applicability (IA)											
	Claims	1-22				YE					
	Claims	NONE				NC					
Citations and explanations:	- 1										
se See Continuation Sheet											
				3							

International application No. PCT/US05/28793

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

The drawings are objected to under PCT Rute 66 2(a)(iii) as containing the following defect(s) in the form or content thereof: in Figure 3, "72" should be deleted from element 312: in figure 4, reference character "404" has been used to designate two different elements; in figure 4, reference characters "404" and "406" have both been used to designate the same element; in figure 4, elements "402" and "400" have both been used to designate the same element; in figure 4, elements "402" and "400" are more flowed in the specification at [4003] by law are not flowed in the drawing.

The description is objected to as containing the following defect(s) under PCT Rule 66.2(a)(iii) in the form or contents thereof: "308" [line 2 of paragraph 0030] should be changed to --208-- as per figure 2.

Claims 2, 10 are objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents thereof: the term "the selection" should be changed to —the selectable list— to clarify antecedent basis.

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International application No.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claims 3, 5-7, 10-17, 20, 22 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because the claims are indefinite for the following reason(s): as per claims 3 and 11, there is no antecedent basis for "the resource requirements of the one or more functions of the system level solution", thus rendering the claims indefinite; as per claims 5-7, 13, 20, 22, there is no antecedent basis for "after each selection of a high level device", thus rendering the claims indefinite; as per claims 10-16, the grammar is confusing thus rendering the claims indefinite.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

V. 2. Citations and Explanations:

Claims 1-5, 8-13, 16-20 lack novelty under PCT Article 33(2) as being anticipated by Bartz et al. [U.S. Patent #6,701,508 B11.

Claims 6.7 14.15 21-22 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest validating a current state of the system level solution

Claims 1-22 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

As per claim 1/18 a method, comprising: automatically providing a user interface comprising a selectable list of one or more processing devices hased on a system level solution [column 5, lines 5-20]; automatically generating an embedded programmable system solution from the system level solution and a processing device selected from the selectable list of one or more processing devices [column 5. lines 36-49]; and automatically programming the processing device according to the embedded programmable system solution feetuning 5. lines 57-58]. As per claim 2, wherein prior to the automatically providing, determining the selection of one or more processing devices by matching resource requirements of one or more functions of the system level solution to one or more base projects associated with the one or more processing devices [column 5, lines \$2-54]. As per claim 3, further comprising automatically generating one or more base projects associated with the one or more processing devices based upon the resource requirements of the one or more functions of the system level solution and physical parameters associated with the one or more processing devices (column 5, lines 52-54). As per claim 4/19, wherein prior to the automatically generating, providing the user interface with a selectable list of a plurality of high level devices to design the system level solution (column 5, line 59-column 6, line 11]. As per claim 5/20, further comprising updating the selectable list of the plurality of high level devices and the selectable list of the one or more processing devices after each selection of a high level device from the plurality of high level devices (column 7, lines 28-42; column 8, lines 25-26). As per claim 8, wherein the selectable list of one or more processing devices is comprised of at least one of a programmable logic device, a field programmable gate array, a microcontroller, a microprocessor-based device, or a circuit comprising a processing device (column 5, line 25). As per claim 9 a system, comprising a processing device maker engine to provide a user interface comprising a selectable list of one or more processing devices based on a system level solution [column 5, lines 5-20]; and a hardware designer engine to receive the system

level solution from the processing device maker and to generate an embedded programmable system solution from the system level solution and a processing device selected from the one or more processing devices, and to program the processing device according to the embedded programmable system solution [column 2, June 3.64-9, 37-88]. As per claim 10, wherein to provide the seer metrice this

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

processing device maker engine to determine the selection of one or more processing devices by matching resource requirements of one or more functions of the system flevel solution to one or more base projects associated with the one or more processing devices go with the one or more base projects associated with the one or more processing devices based upon the resource requirements of the one or more functions of the system level solution and physical parameters associated with the one or more processing devices fooltoms. In the processing device associated with the one or more functions of the system level solution and physical parameters associated with the one or more processing devices (solution solution), in the system level solution fooltoms, in the system level solution (column 5, line 59-column 6, line 11]. As per claim 13, wherein the processing device maker engine to update the selectable list of the plurality of high level devices and the selectable list of the one or more processing devices after each selection of a high level device from the plurality of high level devices (column 7, lines 28-21; column 8, lines 23-26). As per claim 16, wherein the processing device maker engine further to away as first flic comprising the system level solution, to defect one or more processing devices after each read flies associated with the embedded programmable form, and the selection of a programmable form, and the selection of a programmable logic device, a field programmable gate array, a micro-controller, a microprocessor-based device (out on a circuit comprising a processing devices (over column 6, line 25-27; the state one of a programmable logic device, a field programmable gate array, a micro-controller, a microprocessor-based device (out on a circuit comprising a processing devices (over column 6, line 25-27).